

SURVEILLANCE WEEK 51 & 52 (December 16– December 29) 2007

This issue of the Ontario Influenza Bulletin provides information on the surveillance period from December 16 - December 29, 2007, (Week 51 & 52). The analysis for this issue occurred on Thursday January 3, 2007, therefore all data is current to that date unless otherwise specified.

Overall, influenza activity in Ontario during weeks 51 & 52, 2007 was slightly higher compared to week 50, 2007. There were 150 sporadically occurring cases of influenza A and one sporadic case of influenza B reported through iPHIS from health units. There were two new reports of institutional outbreaks of influenza. For week 52, the highest level of influenza activity was 'localized' reported from Toronto, while 'sporadic' activity was reported from Central East and Central West. The remaining regions in Ontario either did not report data or reported 'no activity' for influenza.

In Canada for week 51, influenza activity levels remained low; however several provinces (PEI, NS, MB, and AB) and 1 territory (NT) did not report activity levels this week. Only 2 influenza surveillance regions (in BC and SK) reported localized influenza activity, while the rest reported either no activity or sporadic activity.[†]

Tip of the month:

For health unit staff assigning influenza activity levels for their unit (Appendix C data), please note that for "sporadic activity", symptom onset dates for lab-confirmed cases must fall within the surveillance week on the reporting form. Onset date of symptoms, not the date of lab confirmation, is when activity occurs (please refer to footnote on pages 2 and 3 for episode date hierarchy).

Please refer to page 14 for report submission dates.

Table 1: Summary of confirmed influenza cases and institutional influenza outbreaks by health region (Week 51 & 52, 2007).

| Confirmed influenza cases* | HEALTH REGION | | | | | | | TOTAL |
|---|---------------|------------|---------|--------------|---------|------------|--------------|-------|
| | North West | North East | Eastern | Central East | Toronto | South West | Central West | |
| Influenza A | 0 | 6 | 1 | 54 | 51 | 3 | 34 | 149 |
| Influenza B | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| Influenza A & B | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total new cases | 0 | 6 | 1 | 54 | 52 | 3 | 34 | 150 |
| Institutional influenza outbreaks‡ | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 |

SOURCE: MOHLTC (iPHIS, Health Unit Reports to PHD)

* Includes reports of sporadically occurring influenza through iPHIS, as well as cases in institutional outbreaks, with dates of onset in the surveillance period.

† These data have been obtained from the FluWatch report of the Public Health Agency of Canada for Week 51, 2007.

‡ Confirmed outbreaks in institutions with onset date of symptoms during the surveillance period.

Table 2: Confirmed cases of influenza by health unit & health region, with an episode date[†] during Weeks 51 & 52, 2007

| Region | Health Unit | Confirmed Influenza | | |
|----------------------|---|---------------------|-------------|------------|
| | | Influenza A | Influenza B | TOTAL |
| North West | Northwestern | 0 | 0 | 0 |
| | Thunder Bay District | 0 | 0 | 0 |
| | TOTAL NORTH WEST | 0 | 0 | 0 |
| North East | Algoma | 0 | 0 | 0 |
| | North Bay Parry Sound District | 6 | 0 | 6 |
| | Porcupine | 0 | 0 | 0 |
| | Sudbury & District | 0 | 0 | 0 |
| | Timiskaming | 0 | 0 | 0 |
| | TOTAL NORTH EAST | 6 | 0 | 6 |
| Eastern | City of Ottawa | 1 | 0 | 1 |
| | Eastern Ontario | 0 | 0 | 0 |
| | Hastings & Prince Edward Counties | 0 | 0 | 0 |
| | Kingston, Frontenac, Lennox & Addington | 0 | 0 | 0 |
| | Leeds, Grenville And Lanark District | 0 | 0 | 0 |
| | Renfrew County And District | 0 | 0 | 0 |
| | TOTAL EASTERN | 1 | 0 | 1 |
| Central East | Durham Region | 4 | 0 | 4 |
| | Haliburton, Kawartha, Pine Ridge | 1 | 0 | 1 |
| | Peel Region | 45 | 0 | 45 |
| | Peterborough County-City | 3 | 0 | 3 |
| | Simcoe Muskoka District | 1 | 0 | 1 |
| | York Region | 0 | 0 | 0 |
| | TOTAL CENTRAL EAST | 54 | 0 | 54 |
| Toronto | Toronto | 51 | 1 | 52 |
| | TOTAL TORONTO | 51 | 1 | 52 |
| South West | Chatham-Kent | 0 | 0 | 0 |
| | Elgin-St. Thomas | 0 | 0 | 0 |
| | Grey Bruce | 3 | 0 | 3 |
| | Huron County | 0 | 0 | 0 |
| | Lambton County | 0 | 0 | 0 |
| | Middlesex-London | 0 | 0 | 0 |
| | Oxford County | 0 | 0 | 0 |
| | Perth District | 0 | 0 | 0 |
| | Windsor-Essex County | 0 | 0 | 0 |
| | TOTAL SOUTHWEST | 3 | 0 | 3 |
| Central West | Brant County | 0 | 0 | 0 |
| | City Of Hamilton | 10 | 0 | 10 |
| | Haldimand-Norfolk | 0 | 0 | 0 |
| | Halton Region | 5 | 0 | 5 |
| | Niagara Region | 1 | 0 | 1 |
| | Waterloo Region | 15 | 0 | 15 |
| | Wellington-Dufferin-Guelph | 3 | 0 | 3 |
| | TOTAL CENTRAL WEST | 34 | 0 | 34 |
| TOTAL ONTARIO | | 149 | 1 | 150 |

SOURCE: MOHLTC [iPHIS, Health Unit Reports have been extracted using CRN at PHD]

[†] Episode Date for a case corresponds to the earliest date on record for the case according to the iPHIS hierarchy (Symptom Date > Clinical Diagnosis Date > Specimen Collection Date > Lab Test Date > Reported Date)

Table 3: Cumulative* confirmed cases of influenza by health unit & health region with an episode date† between September 1, 2007 – December 29, 2007

| Region | Health Unit | Confirmed Influenza | | |
|--------------|---|---------------------|-------------|------------|
| | | Influenza A | Influenza B | TOTAL |
| North West | Northwestern | 1 | 0 | 1 |
| | Thunder Bay District | 0 | 0 | 0 |
| | TOTAL NORTH WEST | 1 | 0 | 1 |
| North East | Algoma | 6 | 0 | 6 |
| | North Bay Parry Sound District | 9 | 1 | 10 |
| | Porcupine | 0 | 0 | 0 |
| | Sudbury & District | 1 | 0 | 1 |
| | Timiskaming | 0 | 0 | 0 |
| | TOTAL NORTH EAST | 16 | 1 | 17 |
| Eastern | City Of Ottawa | 1 | 0 | 1 |
| | Eastern Ontario | 0 | 0 | 0 |
| | Hastings & Prince Edward Counties | 0 | 0 | 0 |
| | Kingston, Frontenac, Lennox & Addington | 1 | 0 | 1 |
| | Leeds, Grenville And Lanark District | 0 | 0 | 0 |
| | Renfrew County And District | 0 | 0 | 0 |
| | TOTAL EASTERN | 2 | 0 | 2 |
| Central East | Durham Region | 7 | 0 | 7 |
| | Haliburton, Kawartha, Pine Ridge | 2 | | 2 |
| | Peel Region | 66 | 1 | 67 |
| | Peterborough County-City | 4 | 0 | 4 |
| | Simcoe Muskoka District | 5 | 1 | 5‡ |
| | York Region | 14 | 0 | 14 |
| | TOTAL CENTRAL EAST | 98 | 1 | 99 |
| Toronto | Toronto | 161 | 5 | 166 |
| | TOTAL TORONTO | 161 | 5 | 166 |
| South West | Chatham-Kent | 0 | 0 | 0 |
| | Elgin-St. Thomas | 0 | 0 | 0 |
| | Grey Bruce | 3 | 0 | 3 |
| | Huron County | 0 | 0 | 0 |
| | Lambton County | 0 | 0 | 0 |
| | Middlesex-London | 0 | 1 | 1 |
| | Oxford County | 0 | 0 | 0 |
| | Perth District | 0 | 0 | 0 |
| | Windsor-Essex County | 0 | 0 | 0 |
| | TOTAL SOUTHWEST | 3 | 1 | 4 |
| Central West | Brant County | 0 | 0 | 0 |
| | City Of Hamilton | 13 | 0 | 13 |
| | Haldimand-Norfolk | 0 | 0 | 0 |
| | Halton Region | 20 | 0 | 20 |
| | Niagara Region | 1 | 0 | 1 |
| | Waterloo Region | 21 | 0 | 21 |
| | Wellington-Dufferin-Guelph | 8 | 0 | 8 |
| | TOTAL CENTRAL WEST | 63 | 0 | 63 |
| | TOTAL ONTARIO | 344 | 8 | 352 |

SOURCE: MOHLTC [iPHIS, Health Unit Reports have been extracted using CRN at PHD]

* Cumulative case counts include late reports and records that are otherwise reconciled. Therefore, cumulative counts may not equal new cases plus previous cumulative value.

† Episode Date for a case corresponds to the earliest date on record for the case according to the iPHIS hierarchy (Symptom Date > Clinical Diagnosis Date > Specimen Collection Date > Lab Test Date > Reported Date)

‡Note that one of the cases of influenza reported from Simcoe Muskoka District represents a case co-infected with Influenza A & B

Influenza Subtype(s):

During week 51 & 52, 2650 isolates were received by the Public Health Agency of Canada, with 159 testing positive for influenza A and 29 for influenza B. The majority of influenza A isolates (105) were from Ontario (66.0%), while 25 (15.7%) were from British Columbia and 18 were from Saskatchewan (11.3%). The majority of influenza B isolates (16) were reported from Alberta (55.2%), 10 were reported from Saskatchewan (34.5%) while three (10.3%) were reported from British Columbia. None of the influenza isolates from Ontario tested positive for influenza B.*

Antigenic Characterization:

The National Microbiology Laboratory (NML) has characterized 42 influenza viruses for the 2007-2008 influenza season: 27 A(H1N1), 6 A(H3N2) and 9 B viruses. All influenza A(H1N1) viruses were antigenically similar to A/Solomon Islands/3/2006. Of the 6 influenza A(H3N2) viruses characterized, 5 were antigenically similar to A/Wisconsin/67/2005 and 1 was antigenically similar to A/Brisbane/10/2007. One of the five A/Wisconsin-like viruses had reduced titer to A/Wisconsin/67/2005 reference antiserum. Of the 9 influenza B isolates characterized, 2 were antigenically similar to B/Malaysia/2506/2004 and 7 were antigenically similar to B/Florida/4/2006 (belonging to the B/Yamagata lineage).**

Antiviral Resistance:

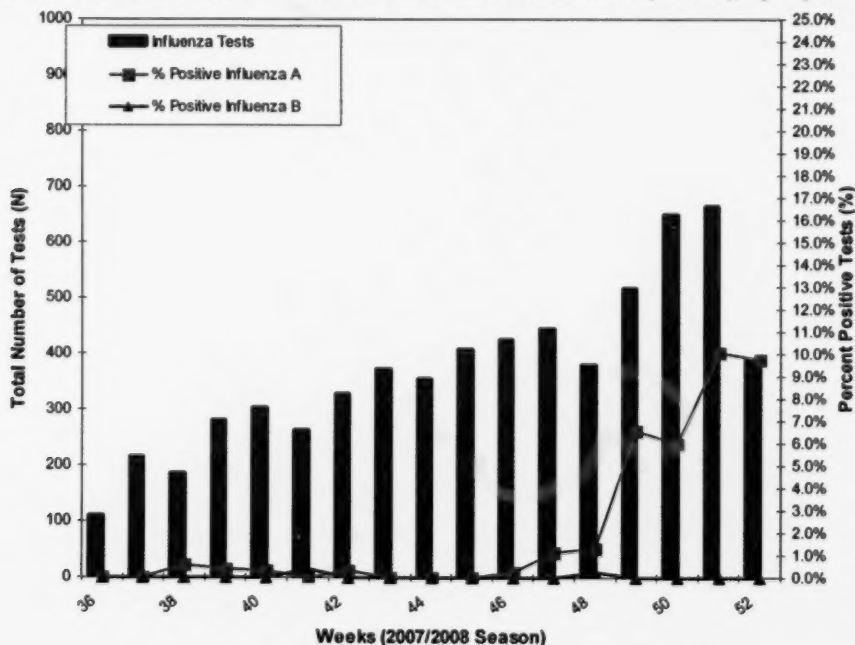
Since the start of the season, the NML has tested 29 influenza A isolates (20 H1N1 and 9 H3N2) for amantadine resistance and found that 7 (78%) of the 9 H3N2 isolates were resistant to amantadine (originating from ON and AB) and all 20 H1N1 isolates were sensitive. Of the 33 isolates tested for oseltamivir resistance (24 influenza A, 9 influenza B), none were found to be resistant.**

Note: The WHO recommends that the trivalent vaccine for the 2007-2008 season in the northern hemisphere (which includes Canada) contain an A/Solomon Islands (H1N1)-like virus; an A/Wisconsin (H3N2)-like virus; and a B/Malaysia-like virus.

* These data have been obtained from the Respiratory Virus Detection tables of Public Health Agency of Canada and do not include data from late reports to PHAC: Week 51 & 52, 2007

** These data have been obtained from the FluWatch report of the Public Health Agency of Canada for Week 51, 2007.

Figure 1: Total number of influenza tests performed and percent of positive tests in Ontario reported to the Centre for Infectious Disease Prevention and Control (CIDPC), by report week.



Source: Public Health Agency of Canada

* Total numbers reported include late reports; therefore totals may not be equal to the sum of the weekly numbers.

Note: Cumulative numbers for season to date are available through FluWatch: <http://www.phac-aspc.gc.ca/fluwatch/>

Table 4a: Institutional respiratory infection outbreaks in Ontario: New Outbreaks* in Week 51 & 52 and Total Outbreaks for the Season**

| Institutional Respiratory Infection Outbreaks | | |
|--|------------|-------------------------|
| New Outbreaks* | N | % (of outbreaks) |
| Influenza A | 1 | 12.5 |
| Influenza B | 1 | 12.5 |
| Influenza A and B | 0 | 0.0 |
| Parainfluenza (All types) | 1 | 12.5 |
| RSV | 0 | 0.0 |
| Other organisms | 0 | 0.0 |
| No organism identified | 5 | 62.5 |
| TOTAL | 8 | 100 |
| Total Respiratory Infection Outbreaks of the Season to date** | N | % (of outbreaks) |
| Influenza A | 4 | 2.6 |
| Influenza B | 1 | 0.6 |
| Influenza A and B | 0 | 0.0 |
| Parainfluenza (All types) | 13 | 8.3 |
| RSV | 3 | 1.9 |
| Combined Outbreaks† | 0 | 0.0 |
| Other organisms | 22 | 14.0 |
| No organism identified | 114 | 72.6 |
| TOTAL | 157 | 100 |
| Types of Institutions (All Outbreaks) ** | N | % (of outbreaks) |
| Long-Term Care Homes | 97 | 61.8 |
| Hospitals | 4 | 2.6 |
| Retirement Homes | 12 | 7.6 |
| Other | 2 | 1.3 |
| Unknown | 42 | 26.8 |
| TOTAL | 157 | 100 |

SOURCE: MOHLTC [iPHIS, Health Unit Reports have been extracted using CRN at PHD]

* New outbreaks are those in which the date of onset of illness in the first case occurred and recorded through iPHIS in the current surveillance period; i.e. December 16 – December 29, 2007

** Season to date includes all outbreaks in which the date of onset of illness in the first case occurred from September 1, 2007 – December 29, 2007

† Combined outbreaks include outbreaks in which more than one non-influenza organism has been identified (e.g. RSV, parainfluenza, rhinovirus, etc.)

Table 4b: Outbreak Related Complications in institutional respiratory infection outbreaks in Ontario during the Surveillance Season*

| Outbreak Related Complications (All Outbreaks) | N | % (of total cases) |
|---|-------------|------------------------------|
| Total Cases | | |
| Residents | 1797 | 76.8 |
| Patients | 71 | 3.0 |
| Staff | 471 | 20.1 |
| Total Cases | 2339 | 100 |
| Deaths | | % (of cases per role) |
| Residents | 31 | 1.7 |
| Patients | 0 | 0.0 |
| Staff | 0 | 0.0 |
| Pneumonia (Chest x-ray confirmed) | | % (of cases per role) |
| Residents | 49 | 2.7 |
| Patients | 1 | 1.4 |
| Staff | 0 | 0.0 |
| Hospitalizations | | % (of cases per role) |
| Residents | 49 | 2.7 |
| Staff | 0 | 0.0 |
| Outbreak Related Complications (Influenza Outbreaks) | N | % (of total cases) |
| Total Cases | | |
| Residents | 40 | 60.6 |
| Patients | 11 | 16.7 |
| Staff | 15 | 22.7 |
| Total Cases | 66 | 100 |
| Deaths | | % (of cases per role) |
| Residents | 1 | 2.5 |
| Patients | 0 | 0.0 |
| Staff | 0 | 0.0 |
| Pneumonia (Chest x-ray confirmed) | | % (of cases per role) |
| Residents | 0 | 0.0 |
| Patients | 1 | 9.1 |
| Staff | 0 | 0.0 |
| Hospitalizations | | % (of cases per role) |
| Residents | 1 | 2.5 |
| Staff | 0 | 0.0 |

SOURCE: MOHLTC (PHIS, Health Unit Reports have been extracted using CRN at PHD)

* Season to date includes all outbreaks in which the date of onset of illness in the first case occurred from September 1, 2007 – December 29, 2007

Figure 2: Institutional respiratory infection outbreaks in Ontario by onset of illness in the first case: Total Outbreaks from September 1, 2007 – December 29, 2007 by causative organism

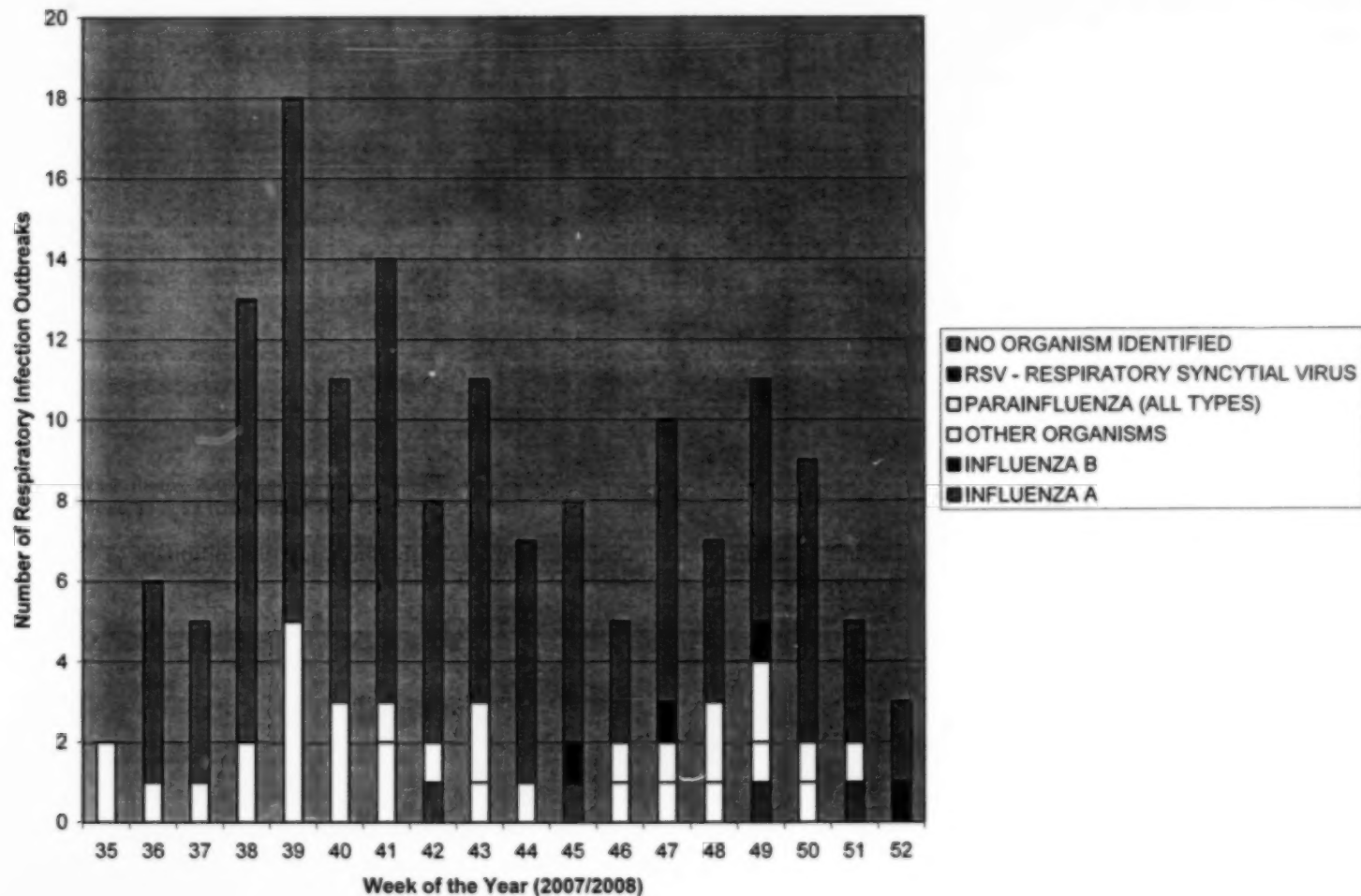
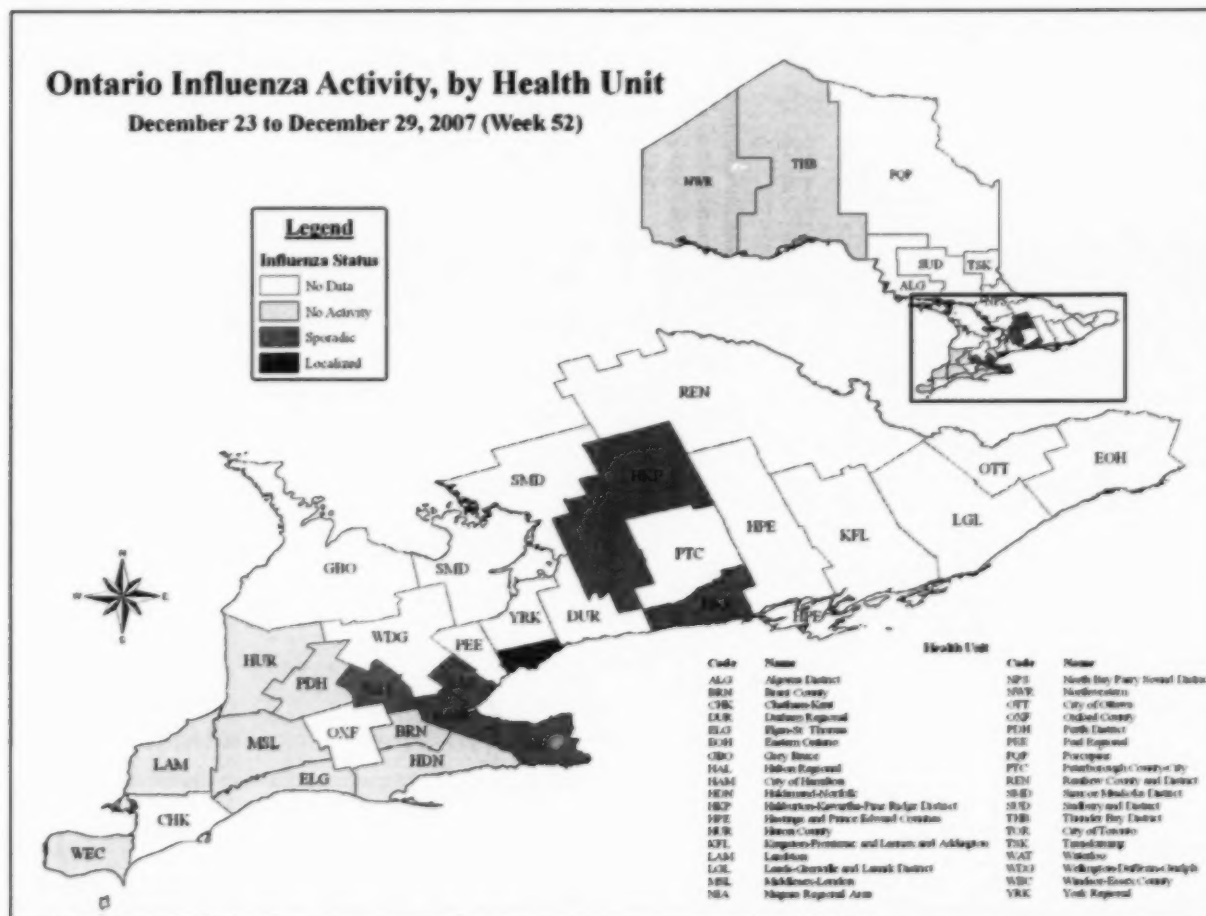


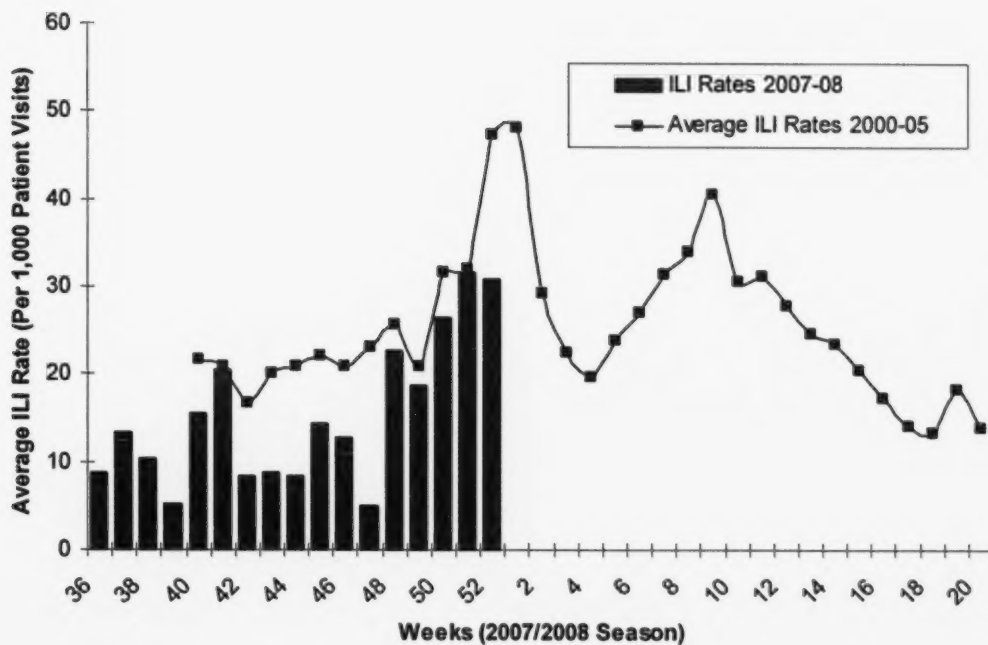
Figure 3: Influenza Activity* levels in Ontario by health unit for Week 52



SOURCE: MOHLTC [Provincial Influenza Activity Report (Appendix C) Database]

* Influenza activity levels are assigned by local public health units and reported to the MOHLTC by the Tuesday following the end of the surveillance week at 4 pm. Activity levels are assigned based on laboratory confirmations, ILI reports from various sources, and laboratory confirmed institutional outbreaks. Please refer to detailed definitions for the 2007-2008 season included in the Appendix-1]

Figure 4: Average influenza-like illness (ILI) consultation rate (per 1,000 patient visits) reported by sentinel physicians* in Ontario in 2007- 2008 season, by report week, Compared to Ontario average† (1999/2000 to 2004/05 seasons).



Source: Public Health Agency of Canada

* Sentinel physician information is reported to Public Health Agency of Canada.

† No data available for mean rate in previous years for weeks 21 to 39 (1999-2000 through 2004-2005 seasons). During weeks 20-39, 2002-2003/2004-2005 seasons, ILI is reported once every two weeks, on even weeks only.

Table 5: Average Influenza-like illness consultation rate (per 1,000 patient visits) by age group and postal code as reported by Sentinel Physicians* in Ontario, for Week 51.

| Postal Code | 0 – 4 | 5 – 19 | 20 – 64 | 65 + | Unknown |
|---|--------------|--------------|--------------|-------------|-------------|
| K1L8H2 | 1 | 0 | 1 | 0 | 0 |
| K2P1V3 | 0 | 0 | 0 | 0 | 0 |
| K1J9M2 | 1 | 0 | 0 | 0 | 0 |
| K0H2H0 | 0 | 1 | 1 | 0 | 0 |
| K7H2W6 | 0 | 0 | 0 | 0 | 0 |
| K0K2T0 | 0 | 0 | 0 | 0 | 0 |
| L1A3W4 | 0 | 0 | 0 | 0 | 0 |
| K0M1A0 | 0 | 0 | 0 | 0 | 0 |
| L4L4Y7 | 0 | 0 | 0 | 0 | 0 |
| L4J7Y3 | 0 | 0 | 0 | 0 | 0 |
| L4C2N9 | 1 | 1 | 2 | 0 | 0 |
| L4G7Y3 | 0 | 0 | 1 | 0 | 0 |
| M5M1B2 | 0 | 0 | 0 | 0 | 0 |
| M4X1W4 | 0 | 0 | 0 | 0 | 0 |
| M6G4A1 | 0 | 0 | 0 | 0 | 0 |
| M4E1V8 | 0 | 0 | 0 | 0 | 0 |
| M4M3P3 | 0 | 0 | 0 | 0 | 0 |
| M4M3P3 | 0 | 0 | 1 | 0 | 0 |
| M2K1E1 | 0 | 0 | 0 | 0 | 0 |
| M9W6N5 | 0 | 0 | 0 | 0 | 0 |
| M8V2Z5 | 0 | 0 | 0 | 0 | 0 |
| L5J2W4 | 0 | 0 | 1 | 0 | 0 |
| L4Y2N8 | 0 | 0 | 0 | 0 | 0 |
| L6W2A4 | 1 | 1 | 9 | 0 | 0 |
| L6V4H6 | 0 | 0 | 2 | 0 | 0 |
| L9W1G2 | 0 | 0 | 0 | 0 | 0 |
| L6L2X4 | 0 | 0 | 0 | 0 | 0 |
| L6L1X8 | 0 | 0 | 0 | 0 | 0 |
| L7R1M6 | 0 | 0 | 0 | 0 | 0 |
| L9H1V1 | 0 | 0 | 1 | 0 | 0 |
| L9H2G2 | 0 | 0 | 0 | 0 | 0 |
| L2E7H1 | 0 | 0 | 0 | 0 | 0 |
| N3R7K8 | 0 | 0 | 0 | 0 | 0 |
| N1R2L7 | 1 | 0 | 3 | 2 | 0 |
| N2M3B5 | 0 | 0 | 0 | 0 | 0 |
| N5H1K9 | 0 | 0 | 0 | 0 | 0 |
| N8T3J8 | 0 | 0 | 2 | 1 | 0 |
| N0M1T0 | 0 | 0 | 0 | 0 | 0 |
| N0L1Z0 | 0 | 0 | 0 | 0 | 0 |
| N6C2R5 | 0 | 0 | 0 | 0 | 0 |
| N0M1L0 | 0 | 0 | 1 | 0 | 0 |
| N0C1E0 | 0 | 0 | 0 | 0 | 0 |
| L3V5W5 | 0 | 0 | 0 | 0 | 0 |
| L3V5S2 | 0 | 0 | 0 | 0 | 0 |
| L4R4P4 | 0 | 0 | 0 | 0 | 0 |
| P0A1C0 | 1 | 0 | 0 | 0 | 0 |
| P0M2L0 | 0 | 0 | 0 | 0 | 0 |
| P4N1C6 | 0 | 0 | 0 | 0 | 0 |
| P0M1Z0 | 0 | 2 | 0 | 0 | 0 |
| P7E1H5 | 0 | 0 | 0 | 0 | 0 |
| P0T2E0 | 1 | 0 | 0 | 0 | 0 |
| P0W1E0 | 0 | 0 | 0 | 0 | 0 |
| P9N3W7 | 0 | 0 | 1 | 0 | 0 |
| ILI Sum | 7 | 5 | 26 | 3 | 0 |
| ILI Consultation Rate (per 1,000 patient visits) | 61.40 | 40.65 | 36.36 | 8.67 | 0.00 |

Source: Public Health Agency of Canada

* Sentinel physician information is reported to the Public Health Agency of Canada

Note: The small numbers of sentinel physicians reporting at the local level make the ILI rates unstable. Please interpret these data correspondingly.

Table 6: Average Influenza-like illness consultation rate (per 1,000 patient visits) by age group and postal code as reported by Sentinel Physicians* in Ontario, for Week 52.

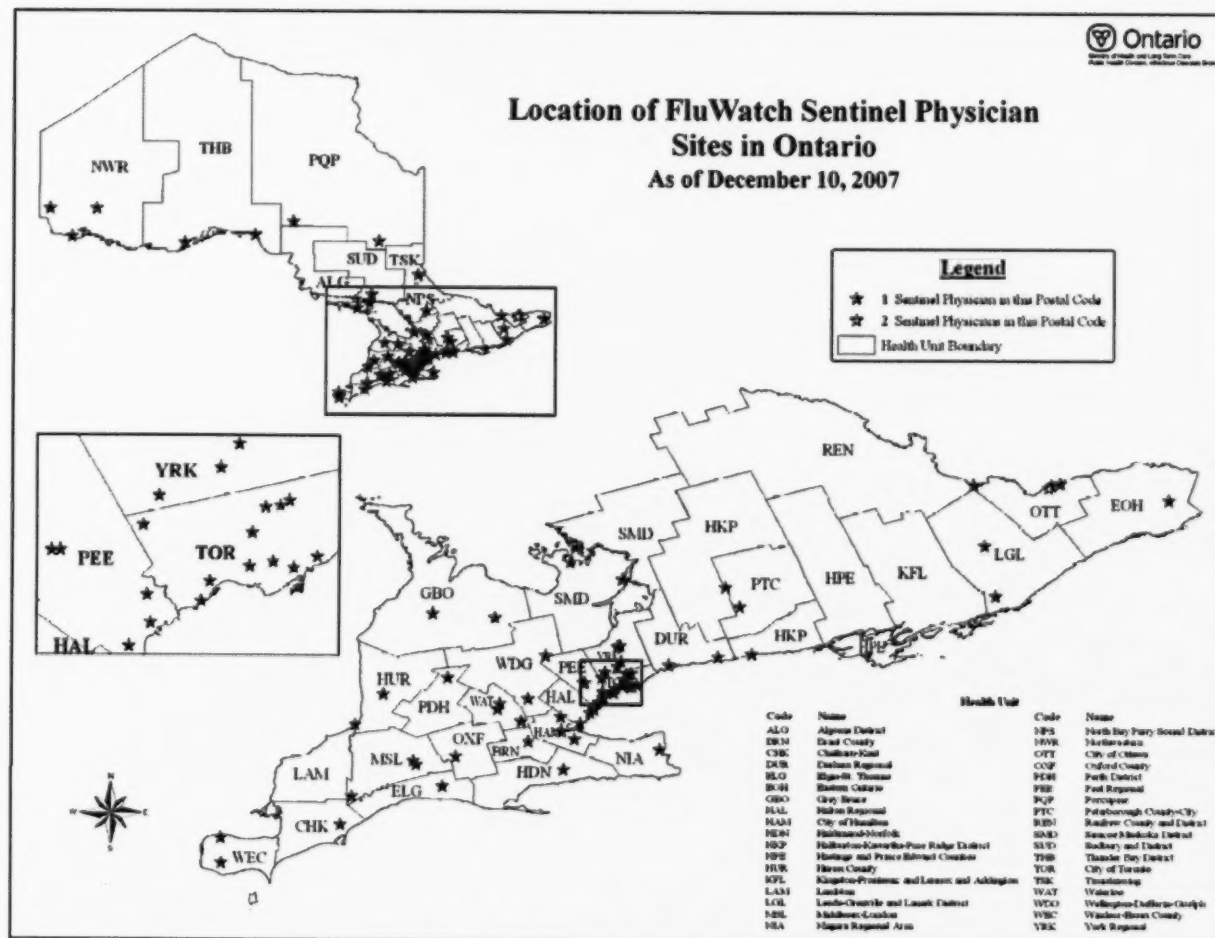
| Postal Code | 0 – 4 | 5 – 19 | 20 – 64 | 65 + | Unknown |
|---|---------------|--------------|--------------|--------------|-------------|
| K7H2W6 | 0 | 0 | 0 | 0 | 0 |
| L4L4Y7 | 0 | 0 | 0 | 0 | 0 |
| L4J7Y3 | 0 | 0 | 0 | 0 | 0 |
| M5M1B2 | 0 | 0 | 0 | 0 | 0 |
| M4X1W4 | 0 | 0 | 0 | 0 | 0 |
| M6G4A1 | 3 | 0 | 1 | 0 | 0 |
| M2J2Z1 | 0 | 0 | 0 | 0 | 0 |
| M2K1E1 | 0 | 0 | 0 | 0 | 0 |
| M8V2Z5 | 0 | 0 | 0 | 0 | 0 |
| L5J2W4 | 0 | 0 | 0 | 0 | 0 |
| L4Y2N8 | 0 | 0 | 0 | 0 | 0 |
| L6W2A4 | 0 | 3 | 4 | 2 | 0 |
| L6V4H6 | 1 | 0 | 0 | 0 | 0 |
| L7R1M6 | 0 | 0 | 0 | 0 | 0 |
| L9H2G2 | 0 | 0 | 0 | 0 | 0 |
| L0R0H2 | 0 | 0 | 0 | 0 | 0 |
| L8W3J6 | 0 | 0 | 0 | 0 | 0 |
| L2E7H1 | 0 | 0 | 0 | 0 | 0 |
| N3R7K8 | 0 | 0 | 0 | 0 | 0 |
| N1R2L7 | 0 | 0 | 1 | 0 | 0 |
| N4W1P9 | 0 | 0 | 0 | 0 | 0 |
| N5H1K9 | 0 | 0 | 0 | 0 | 0 |
| N0R1G0 | 0 | 0 | 0 | 0 | 0 |
| N0M1T0 | 0 | 0 | 0 | 0 | 0 |
| N6C2R5 | 0 | 0 | 0 | 0 | 0 |
| N0M1L0 | 0 | 1 | 2 | 0 | 0 |
| N0C1E0 | 0 | 0 | 0 | 0 | 0 |
| L3V5W5 | 0 | 0 | 0 | 0 | 0 |
| P0M2L0 | 0 | 0 | 0 | 0 | 0 |
| L6L1X8 | 0 | 0 | 0 | 0 | 0 |
| P0S1K0 | 0 | 0 | 0 | 0 | 0 |
| P0M1Z0 | 0 | 0 | 0 | 0 | 0 |
| P0W1E0 | 0 | 0 | 0 | 0 | 0 |
| ILI Sum | 4 | 4 | 8 | 2 | 0 |
| ILI Consultation Rate (per 1,000 patient visits) | 108.11 | 62.50 | 23.95 | 13.25 | 0.00 |

Source: Public Health Agency of Canada

* Sentinel physician information is reported to the Public Health Agency of Canada

Note: The small numbers of sentinel physicians reporting at the local level make the ILI rates unstable. Please interpret these data correspondingly.

Figure 5: Geographic Distribution of Sentinel Physicians in Ontario



Source: National Research System (NaReS), College of Family Physicians of Canada

* Sentinel physician information is reported to the Public Health Agency of Canada

FURTHER INFORMATION

1. Ontario Ministry of Health and Long-Term Care
Previous issues of the *Ontario Influenza Bulletin* can be accessed at:
http://www.health.gov.on.ca/english/providers/program/pubhealth/flu/flu_07/flubul_mn.html
2. Health Agency of Canada
Issues of FluWatch can be accessed at:
www.phac-aspc.gc.ca/fluwatch/
3. United States Centers for Disease Control and Prevention
<http://www.cdc.gov/flu/weekly/fluactivity.htm>
4. European Influenza Surveillance Scheme
http://www.eiss.org/cgi-files/bulletin_v2.cgi

INFORMATION ABOUT AVIAN INFLUENZA

For latest information on the status of avian influenza worldwide please use the following link:

Public Health Agency of Canada

<http://www.phac-aspc.gc.ca/h5n1/index.html>

APPENDIX - I

Definitions for influenza activity levels:

No Data: No activity report corresponding to the surveillance week was received at the Ministry of Health and Long-Term Care Call Centre by the Tuesday (at 4 p.m.) following the end of the surveillance period.

No Activity: No laboratory confirmed* influenza and NO outbreaks detected within the health unit/ influenza surveillance area, within the prior week, although sporadically occurring ILI may or may not be present.†

Sporadic: Sporadically (infrequently) occurring ILI and at least one lab-confirmed influenza* case with NO outbreaks detected within the health unit area.†

Localized: sporadically occurring ILI and lab-confirmed influenza* together with outbreaks of ILI in schools and work sites, or laboratory-confirmed influenza in residential institutions occurring in < 50% of the health unit. Outbreaks affect a single and/or adjacent geographic area within the health unit jurisdiction, e.g. outbreaks in a nursing home and a school in close proximity to each other.†

Widespread: sporadically occurring ILI and lab-confirmed influenza* together with outbreaks of ILI in schools and work sites, or laboratory-confirmed influenza in residential institutions occurring in > 50% of the health unit. Outbreaks affect multiple and non-adjacent geographic areas within the health unit jurisdiction, such as two or more regions of the health unit, two or more municipalities, two or more electoral wards, etc.†

* Confirmation of influenza within the surveillance region at any time within the prior week

† Sub-regions within the province or territory as defined by the provincial/territorial epidemiologist

Influenza-Like Illness (ILI) Definitions:

A) ILI in the general population:

Acute onset of respiratory illness with fever and cough and with one or more of the following - sore throat, arthralgia, myalgia, or prostration which could be due to influenza virus. In children under 5, gastrointestinal symptoms may also be present. In patients under 5 or 65 and older, fever may not be prominent.

B) ILI/Influenza outbreaks:

Schools and work sites: greater than 10% absenteeism on any day, most likely due to ILI.

Residential institutions: two or more cases of ILI within a seven-day period, including at least one laboratory confirmed case.

Influenza Surveillance Weeks 2007-2008 and date of submission of Appendix C

| WEEKS | START | END | Appendix C Submission to MOHLTC |
|-------|-----------|-----------|---------------------------------|
| WK1 | 30-Dec-07 | 5-Jan-08 | 8-Jan-08 |
| WK2 | 6-Jan-08 | 12-Jan-08 | 15-Jan-08 |
| WK3 | 13-Jan-08 | 19-Jan-08 | 22-Jan-08 |
| WK4 | 20-Jan-08 | 26-Jan-08 | 29-Jan-08 |
| WK5 | 27-Jan-08 | 2-Feb-08 | 5-Feb-08 |
| WK6 | 3-Feb-08 | 9-Feb-08 | 12-Feb-08 |
| WK7 | 10-Feb-08 | 16-Feb-08 | 19-Feb-08 |
| WK8 | 17-Feb-08 | 23-Feb-08 | 26-Feb-08 |
| WK9 | 24-Feb-08 | 1-Mar-08 | 4-Mar-08 |
| WK10 | 2-Mar-08 | 8-Mar-08 | 11-Mar-08 |
| WK11 | 9-Mar-08 | 15-Mar-08 | 18-Mar-08 |
| WK12 | 16-Mar-08 | 22-Mar-08 | 25-Mar-08 |
| WK13 | 23-Mar-08 | 29-Mar-08 | 1-Apr-08 |
| WK14 | 30-Mar-08 | 5-Apr-08 | 8-Apr-08 |
| WK15 | 6-Apr-08 | 12-Apr-08 | 15-Apr-08 |
| WK16 | 13-Apr-08 | 19-Apr-08 | 22-Apr-08 |
| WK17 | 20-Apr-08 | 26-Apr-08 | 29-Apr-08 |
| WK18 | 27-Apr-08 | 3-May-08 | 6-May-08 |
| WK19 | 4-May-08 | 10-May-08 | 13-May-08 |
| WK20 | 11-May-08 | 17-May-08 | 20-May-08 |
| WK21 | 18-May-08 | 24-May-08 | 27-May-08 |
| WK22 | 25-May-08 | 31-May-08 | 3-Jun-08 |
| WK23 | 1-Jun-08 | 7-Jun-08 | 10-Jun-08 |
| WK24 | 8-Jun-08 | 14-Jun-08 | 17-Jun-08 |
| WK25 | 15-Jun-08 | 21-Jun-08 | 24-Jun-08 |
| WK26 | 22-Jun-08 | 28-Jun-08 | 1-Jul-08 |
| WK27 | 29-Jun-08 | 5-Jul-08 | 8-Jul-08 |
| WK28 | 6-Jul-08 | 12-Jul-08 | 15-Jul-08 |
| WK29 | 13-Jul-08 | 19-Jul-08 | 22-Jul-08 |
| WK30 | 20-Jul-08 | 26-Jul-08 | 29-Jul-08 |
| WK31 | 27-Jul-08 | 2-Aug-08 | 5-Aug-08 |
| WK32 | 3-Aug-08 | 9-Aug-08 | 12-Aug-08 |
| WK33 | 10-Aug-08 | 16-Aug-08 | 19-Aug-08 |
| WK34 | 17-Aug-08 | 23-Aug-08 | 26-Aug-08 |
| WK35 | 24-Aug-08 | 30-Aug-08 | 2-Sep-08 |